

WEAPON SYSTEM GEST SUMMARY

As of March 31, 1971
(\$ in millions)

1. Data is divided by Column 3b. ** CVAN 68. *** CVAN 69.
2. Data is "best per site," includes Persister/Acquisition Radar, Missile Site Radar, missiles, etc.
3. Data is current data derived from AFMINT materiel; current data based on SAM-D Tactical Fire Sections.
4. Includes AFMINT sites and the remaining stations, tenders, and range ships.
5. Data relates to reduction in number of missiles and range ships within 31 SSBN force.
6. Data is illustrative; Navy priority development not yet approved.
7. Current Estimate of 313,172K shown for TRIDENT is based on the January 1972 update of the FIDP (the
for a 11 year program. The 313,172M is included in the Current Estimate totals for the Navy and Gr
of this will contain Trident sites.
8. Previously designated AN/FRT-11 DATA.

OASD(Comptroller)
Directorate for Information Operations
June 13, 1972

Classified by: ASD(Compt)
SUBJECT TO GENERAL DECLASSIFICATION SCHEDULE
OF EXECUTIVE ORDER 11652: AUTOMATICALLY
DEGRADED AT TWO YEAR INTERVALS.
DECLASSIFIED ON DECEMBER 31, 1980

SELECTED SAR DATA

ANALYSIS OF CHANGES IN PROGRAM COST, JUNE 30, 1971 - MARCH 31, 1972

CHEYENNE - An increase of \$38M results primarily from a \$39M increase in engineering (inclusion of development costs for TOW, night vision, and other weapon system changes); \$27M increase due to support changes; and compensating decreases of \$34M in estimating changes, and \$12M resulting from contract conversion to cost reimbursable type and aircraft crash repair.

SAFEGUARD - An increase of \$1791M consists principally of a quantity change increase of \$856M (add one site), \$225M support, \$199M economic, and \$417M schedule change (stretchout at Whiteman).

SAM-D - The increase of \$1319M is due for the most part to a quantity increase of \$281M, associated with an increase in missiles and launchers, \$333M in engineering changes (system redefinition), \$910M for higher inflation, and decreases of \$302M in estimating and \$98M in schedule changes because of a slippage in the development program.

UTTAS - The increase of \$427M results from an economic increase of \$518M (recomputation), partially offset by a \$82M decrease due to revised estimating techniques.

DRAGON - The \$215M increase includes \$101M in quantity changes (missiles and trackers), \$11M in support, \$12M in schedule changes, \$24M in economic changes, and \$61M in estimating changes.

TOW - The \$35M decrease consists of decreases of \$25M in engineering changes, and \$32M in estimating changes (including a \$13M savings due to the new missile contract), and a partially offsetting increase of \$17M in engineering changes (added field capability).

M60A1E2 - The increase of \$11M is made up of increases of \$7M in support, \$5M in economic changes, and \$2M in quantity changes, and a \$3M decrease due to estimating changes.

A-7E - The \$44M increase is due mainly to an increase in out-year engine procurement costs and higher spares costs.

AV-8A - The \$30M increase is the result of funding adjustments made necessary by the revised exchange rates between the U.S. and U.K. (\$2.46 vs \$2.40 per pound).

F-14 - The \$60M increase is attributed principally to increased costs associated with Advanced Technology Engine (ATE) development and TF30-P-412 engine procurement.

P-3C - The \$59M decrease results from a two plane reduction (88 to 86) in program quantity (\$22M), and \$103M in savings due to the planned earlier procurement of the FY 73 - FY 74 buys. Most of the latter was later offset by the stretchout resulting from the reduction in the FY 72 buy from 36 to 24 aircraft.

S-3A - The \$13M increase is due mainly to program stretchout resulting from the cutback in the FY 73 buy from 56 to 42 aircraft.

POSEIDON - The \$304M decrease is attributed principally to reductions resulting from lower negotiated missile and other equipment costs, and the use of lower estimates, based on actual experience, for converting ships to POSEIDON capability.

MK-48 MOD 1 - The \$306M decrease results, for the most part, from the deletion from the program of \$287M in "sunk" costs for the MOD 0/2 following the decision to buy the MOD 1.

SSN-688 - The \$250M increase includes \$181M for the add-on of one ship in the FY 73 program, and 69M for increased escalation with the projection of each fiscal year program in "then" year dollars.

DD-963 - The \$40M increase is attributed to higher estimates for inflation using BLS rates.

DIGN- 38 - The \$70M decrease reflects additional price adjustments associated with the cutback to the current three ship program.

CVAN 68/69 - The \$82M increase includes a \$37M increase in the cost of the nuclear power plant, and a \$45M increase in basic ship-building costs resulting from a projected rise in engineering manhours and overhead rates.

EA-6B - The \$157M increase is mainly due to cost increases resulting from the add-on of 65 Expanded Capability Aircraft (EXCAP) Pods together with their required support equipment and spares. Program stretchout resulting from the reduction of the FY 72 buy from 19 to 12 aircraft was also a factor.

VAST-247 - The \$13M increase reflects the use of higher estimates for escalation for FY73 - FY75.

A-7D - The \$28M decrease is due to an adjustment of the FY70 estimates to current funding requirements.

C-5A - The \$29M decrease results mainly from a \$40M reduction in support requirements because of force reduction, partially offset by increases caused by AVCO strike and engine pylon problems.

F-5E - The \$400M decrease is the result of a quantity decrease of \$447M associated with the deletion of MAP/FMS aircraft from the F-5E SAR. There were also partially offsetting increases of \$47M.

F-15 - The \$493M increase is attributed to cost increases resulting from repricing the engine contract after deletion of the engines previously planned for the F-14B (\$552M). Support decreases accounted for \$64M.

F-111 - The \$327M increase includes \$59M for quantity changes, \$63M for the Norden Co. settlement, \$62M in price increases, \$64M for negotiated price increases with Autonetics, \$19M for additional base facilities, \$30M for additional F-111D flight test and support, and \$30M for increased escalation.

MAVERICK - The \$11M increase is made up of a \$35M increase attributed to contract cost overrun and increased escalation, and a \$24M decrease associated with a 2,000 missile cutback in the total buy.

MINUTEMAN II - The \$161M increase results primarily from increased support for operational testing, spares and construction program adjustments, the add-on of FY77 RDT&E requirements, and engineering changes resulting from the reevaluation of threat and increased hardness requirements.

MINUTEMAN III - The \$128M increase is due, for the most part, to the add-on of FY77 RDT&E requirements, engineering changes associated with the Missile Performance Measurement System (MPMS), and criteria changes in the Missile Suspension Isolation and Debris Management Systems.

SRAM - The \$28M increase reflects cost increases associated with the motor second source, additional GFE, and revised estimates based on the FY 1972 negotiated contract.

Distribution of Cost Growth by Category (Other than Quantity Changes)
As of March 31, 1972
(\$ in Millions)

Weapon System	Engineering		Support		Schedule		Economic		Estimating		Unpre-dictable		Cost Overrun		Contr.Perf. Incentive		Other a/		Weapon System Total		
	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	
ARMED FORCES																					
ARVN (RAD Only)	\$+ 20	\$110	\$+ 27	\$ 28	\$ -	\$ -	\$ 4	\$ - 33	\$ - 14	\$ - 47	\$ -	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190	
LAUNCH (Battalions)	+ 7	9	-	17	-	57	-	28	- 2	4	- 6	-	-	-	-	-	-	-	-	115	
IMI HAWK (Battery Sets)	-	32	-	83	-	84	+ 1	49	-	34	-	-	-	-	-	-	-	-	+ 1	288	
SAFEGUARD (Sites)	-	-	27	-	360	-	657	-	790	- 1	237	-	-	-	-	-	-	-	-	2,111	
SAC-D Tac.Fire Sec.)	-	9	-	+ 2	-	-109	-	-1,278	-	-563	-	-	-	-	-	-	-	-	-	-1,972	
HAW Component Dev.)	-	-	-	-	-	-	-	-363	152	- 2	- 82	-	-	-	-	-	-	-	-	4	
UTTAS	-	-25	-	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-372	
))																					
ARMED FORCES																					
AT-TE	-	-	-	8	8	-	603	-	106	- 4	38	-	-	-	-	-	-	-	-	-12	
AV-6A	-	-	-	-	-	2	-	-	29	-	11	-	-	-	-	-	-	-	-	16	
F-8C	-	47	-	29	-	-	51	-	57	-	68	-	-	-	-	-	-	-	-	272	
F-11	-	-	+ 2	- 3	-	64	-	-	151	-	17	- 3	29	-	-	-	-	-	-	222	
P-3C	-	26	+ 1	-25	-	12	-	35	-	212	-	11	-	-	-	-	-	-	+ 1	17	
S-1A	-	10	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	-	261	
AEgis (RAD Only)	-	-	-	-	-	13	-	-	16	-	8	-	-	-	-	-	-	-	-	56	
CHINOOK	-	28	-	- 4	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-	85	
HARPOON	-	-	-	2	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	14	
PHOENIX	-	-	-	-	-	-	-	-	362	-	118	-	-	-	-	-	-	-	-	530	
POSEIDON	-	47	- 3	- 25	-	40	-	-	35	- 32	329	-	-	-	-	-	-	-	-	426	
SPARROW III E	-	7	-	17	-	93	-	-	15	-	11	-	-	-	-	-	-	-	-	121	
SPARROW III F	-	9	-	7	-	110	-	-	239	+ 1	6	-	37	-	-	-	-	-	+ 1	410	
TRIDENT (ULMS)	-	6	+ 1	29	-	-	-	-	-	1	+ 2	147	-	-	-	-	-	-	N/R b/	153	
WOLF MWD 1	-	-	-	-	-	-	-	-	244	-	-	-	-	-	-	-	-	-	-	244	
SSM-181	-	-	-	-	-	3	-	-2	+ 36	173	-	1	-	-	-	-	-	-	-	173	
DS-163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DASH-33	-	-	-	-	-	-	-	-	-	42	+ 10	28	-	-	-	-	-	-	+ 10	70	
DRA	-	-	-	-	-	-	-	-	102	-	-	-	-	-	-	-	-	-	-	253	
STAR 68/69	-	68	-	7	-	-	-	+ 3	3	-	- 7	-	-	-	-	-	-	-	+ 3	56	
AN/BQS-5 c/	-	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
))																					
AIR FORCE																					
A-7D	-	152	+ 6	82	-	50	-	41	- 41	73	-	-	-	-	-	-	-	-	-	252	
A-X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B-1	-	402	- 13	34	-	212	-	14	+ 13	- 73	-	-	-	-	-	-	-	-	-	72	
C-5A	-	266	- 40	164	-	96	-	410	-	557	-	-	-	-	-	-	-	-	-	1,823	
F-5B	-	5	-	4	+ 1	10	-	-	-	1	- 31	-	-	-	-	-	-	-	-	13	
F-15	-	3	- 37	- 101	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	447	
F-111	-	1,457	-	627	-	76	-	207	+ 34	1,066	-	-	-	-	-	-	-	-	+ 34	4,117	
AWACS	-	1	-	2	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	
WARRIOR	-	-	+ 8	1	-	12	+ 9	35	- 1	- 1	- 3	-	2	+ 22	.29	-	9	-	+ 35	64	
MINUTEMAN II	-	159	-	92	-	14	-	-	-	-	-	-	-	-	-	-	1	-	-	47	
MINUTEMAN III	-	651	- 6	- 147	-	17	-	95	-	- 22	-	70	-	-	-	-	5	-	1,089	- 6	1,531
SRAM	-	175	+ 8	131	-	-	-	43	-	536	-	-	-	-	-	-	3	-	+ 8	976	
SPARROW III F	-	20	-	2	-	6	-	46	-	45	-	-	-	-	-	-	-	-	-	41	
))																					
SUMMARY																					
ARMY	+ 18	153	+ 22	491	-109	845	-1,640	1,024	-606	187	- 20	47	- 10	2	-	-	-	-	-2,345	2,739	
NAVY	-	238	- 7	-152	-	1,512	+ 39	1,737	- 33	606	- 2	70	- 111	-	-	-	-	-	+ 6	4,221	
AIR FORCE	-	1,713	- 74	- 42	+ 1	1,117	+ 39	515	+ 1	- 2	- 2	624	+ 22	112	-	-	-	-	-	-	1,177
GRAND TOTAL % of Total	\$+ 18	\$3,809	\$- 59	\$1,231	\$- 108	\$3,543	-1,592	\$3,656	\$- 625	\$2,197	\$- 20	\$741	\$+ 12	\$222	*	-	\$ 10	-	\$1,475	-2,380	\$16,590
		23		7		21		22		13		4		*		-	9		-	1,177	

b/ X: Command Data Buffer and Upgrade Silo Program
 b/ SAR on TRIDENT does not contain a Program Cost Baseline; thus, cost growth not reported.
 c/ Formerly designated AN/BQS-13 DKA.

CASD(Comptroller)
 Directorate for Information Operations
 June 12, 1972

SELECTED SAR DATA

(\$ in Millions)

System	Total Program Cost		
	June 30, 1971	March 31, 1972	Difference
ARMY			
CHEYENNE (R&D Only)	\$ 293	\$ 331	\$ + 38
LANCE (Battalions)	766	774	+ 8
Imp. HAWK (Battery Sets)	752	762	+ 10
SAFEGUARD (Sites)	6,184	7,975	+1,791
SAM-D (Batteries)	3,922	5,241	+1,319
HLH (Comp.Dev. Only)	119 c/	124	+ 5
UTTAS	1,918 c/	2,345	+ 427
DRAGON	270	485 a/	+ 215
TOW	715	680 a/	- 35
M60A1E2	392	403 a/	+ 11
TACFIRE	202	206 a/	+ 4
NAVY			
A-7E	2,106	2,150	+ 44
AV-8A	490	520	+ 30
E-2C	857	858	+ 1
F-14	5,212	5,272	+ 60
P-3C	2,349	2,290	- 59
S-3A	3,139	3,152	+ 13
AEGIS (R&D Only)	474	484	+ 10
CONDOR	380	380	-
PHOENIX	1,252	1,251	- 1
POSEIDON	5,055	4,751	- 304
SPARROW E	330	332	+ 2
SPARROW F	938	928	- 10
MK-48 Mod 1	2,239 b/	1,933	- 306
SSN-688	6,825	7,075	+ 250
DD-963	2,715	2,755	+ 40
DLGN-38	890	820	- 70
LHA	960	970	+ 10
CVAN 68/69	1,234	1,316	+ 82
EA-6B	1,062	1,219 a/	+ 157
SSN-637	2,949	2,941 a/	- 8
DE-1052	1,416	1,411 a/	- 5
VAST-247	431	444 a/	+ 13

Selected SAR Data - Cont'd

System	Total Program Cost		
	June 30, 1971	March 31, 1972	Difference
AIR FORCE			
A-7D	1,377	1,349	- 28
A-X (Prototype Only)	84	84	-
B-1	11,123	11,113	- 10
C-5A	4,555	4,526	- 29
F-5E	697	297	- 400
F-15	7,309	7,802	+ 493
F-111A/D/E/F	6,668	6,995	+ 327
AWACS	2,661	2,661	-
MAVERICK	374	385	+ 11
MINUTEMAN II	4,745	4,906	+ 161
MINUTEMAN III	5,982	6,110	+ 128
SRAM	1,304	1,332	+ 28
SPARROW F	308	298	- 10
TOTAL (GAO Items)	\$ 106,023	\$ 110,436	\$ +4,413
HARPOON			
ULMS	d/	1,085	N/AP
AN/BQS-13 DNA	d/	13,172	N/AP
	d/	787	N/AP
TOTAL (Non-GAO Items)		\$ 15,044	N/AP

a/ These data as of December 31, 1971.

b/ June 30, 1971 data for MK-48 Mod 1 includes close-out costs for Mod 0/2.

c/ June 30, 1971 data for HLH and UTTAS based on GAO report; there were no SAR's for these programs on that date.

d/ No SAR's for these programs for June 30, 1971.

Department of Defense
 OASD(Comptroller)
 Directorate for Information Operations
 May 24, 1972

SELECTED SAR DATA

SUMMARY OF CHANGES IN PROGRAM COST, JUNE 30, 1971 - MARCH 31, 1972^{a/}

	(\$ in Millions)
Current PAC Estimate, June 30, 1971	\$ 106,023
Current PAC Estimate, March 31, 1972 ^{b/}	<u>110,436</u>
Net Change	+ 4,413
<u>Cost Changes by Reason of Change</u>	
Quantity Changes	\$+ 553
Engineering Changes	+ 711
Support Changes	+ 435
Schedule Changes	+ 594
Economic Changes	+ 2,270
Estimating Changes	- 726
Unpredictable Changes	+ 501
Other Changes ^{c/}	+ <u>75</u>
Total	+ 4,413

- ^{a/} This summary covers 46 SAR systems included in the GAO report.
^{b/} This total includes December 31, 1971 data for 8 non-Congressional SAR systems (DRAGON, TOW, M60A1E2, TACFIRE, EA-6B, SSN-637, DE-1052, and VAST-247). Thus, cost comparison covers June 30, 1971 - December 31, 1971 for these systems.
^{c/} Other includes contract cost overruns and contract performance incentives.

FUNDING STATUS OF SAR SYSTEMS
As of March 31, 1972
(*\$* in Millions)

Weapon System	Current & Prior Year		FY 1973 Budget		Balance		Total Current Estimate	
	Funds	Qty	Funds	Qty	Funds	Qty	Funds	Qty
ARMY								
CHEYENNE (R&D Only)	\$ 278	10	\$ 53	1	\$ -	-	\$ 331	11
LANCE (Battalions)	591	1	105	2	78	4	774	7
Imp. HAWK (Btry. Sets)	419	45	117	18	226	27	762	90
SAFEGUARD (Sites)	4,742	2	1,485	1	1,748	1	7,975	4
SAM-D (Tac. Fire Sec)	388	-	171	-	4,682	192	5,241	192
HLH (Comp. Dev. Only)	49	-	53	-	21	-	123	-
UTTAS	34	2	64	2	2,246	1,119	2,344	1,123
DRAGON	120	560	60	4,500	305	51,556	485	56,616
TOW	460	44,107	41	12,000	151	22,837	652	78,944
M60A1E2	299	230	105	316	-	-	404	546
TACFIRE	75	18	5	-	127	127	207	145
NAVY								
A-7E	1,377	398	115	24	658	144	2,150	566
A-8A	267	60	133	30	120	24	520	114
A-2C	511	13	183	8	164	9	858	30
F-14	2,759	86	733	48	1,780	179	5,272	313
P-3C	1,422	106	236	24	632	60	2,290	190
S-3A	1,091	21	671	42	1,390	136	3,152	199
AEGIS (R&D Only)	247	-	82	-	155	-	484	-
CONDOR	170	128	19	40	191	730	380	898
HARPOON	62	12	58	-	965	4,250	1,085	4,262
PHOENIX	445	412	102	245	705	2,750	1,252	3,407
POSEIDON	3,832	20 a/	503	6 a/	416	5 a/	4,751	31
SPARROW E	314	9,462	6	-	12	-	332	9,462
SPARROW F	94	174	88	520	747	11,575	929	12,269
TRIDENT	165	-	977	-	12,030	10	13,172 b/	10
MK-48 Mod 1	580	590	190	500	1,163	3,059	1,933	4,149
SSN-688	2,214	12	1,042	6	3,819	20	7,075	38
DD-963	1,448	16	612	7	694	7	2,754	30
DLGN-38	802	3	-	-	18	-	820	3
LHA	952	5	5	-	13	-	970	5
CVAN 68/69	1,203	2	94	-	19	-	1,316	2
AN/BQQ-5	170	14	76	6	541	75	787	95
EA-6B	951	40	185	7	83	-	1,219	47
SSN-637	2,894	37	39	-	11	-	2,944	37
DE-1052	1,373	46	47	-	11	-	1,431	46
VAST-247	254	46	78	16	111	24	443	86

Classified by: ASD(Comptroller)
SUBJECT TO GENERAL DECLASSIFICATION
SCHEDULE OF EXECUTIVE ORDER 11652
AUTOMATICALLY DOWNGRADED AT TWO

OASD(Comptroller)
Directorate for Information Operations
June 20, 1972

Funding Status of SAR Systems - Cont'd

Pg 2

(\$ in Millions)

Weapon System	Current & Prior Year		FY 1973 Budget		Balance		Total Current Estimate	
	Funds	Qty	Funds	Qty	Funds	Qty	Funds	Qty
AIR FORCE								
A-7D	1,347	387	2	-	-	-	1,349	387
A-X (prototype)	77	4	7	-	-	-	84	4
B-1	689	-	445	-	9,979	244	11,113	244
C-5A	4,319	81	207	-	-	-	4,526	81
F-5E	169	26	118	57	10	-	297	83
F-15	1,022	20	910	30	5,870	699	7,802	749
F-111A/D/E/F	6,819	454	175	12	1	-	6,995	466
AWACS	318	-	470	3	1,873	39	2,661	42
MAVERICK	220	2,186	79	3,000	86	4,000	385	9,186
MINUTEMAN II	4,375	668	14	-	517	-	4,906	668
MINUTEMAN III	4,023	442	844	128	1,243	128	6,110	698
SRAM	849	566	219	480	264	854	1,332	1,900
SPARROW F	8	50	25	100	265	3,800	298	3,950
TOTAL	\$57,287		\$12,048		\$56,140		\$125,475	

a/ SSBN conversions.

b/ Reflects approved program through FY77 only. Total program not yet defined.